



CLAWAR'2008

11th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines

08 – 10 September, 2008, Coimbra, Portugal

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Climbing Robot Competition:

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Special Sessions:

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Exhibition:

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Secretariat:

Institute of Systems and Robotics
University of Coimbra
3030-290 Coimbra, Portugal
Email: clawar2008@isr.uc.pt

Announcement and Call for Papers:

Robotics is an exciting field in engineering and natural sciences. Robotics has already made important widespread contributions and impact in industrial robots for tasks such as assembly, welding, painting, and material handling. In parallel, we have also witnessed the emergence of special service robots which perform valuable jobs, in new environments such as search and rescue, surveillance, exploration and security missions as well as provide assistance to a variety of users. The emergence of mobile machines, such as the climbing and walking robots, for these missions in un-structured environments, has significantly broadened challenges that must be considered by robotics research.

The purpose of the 11th International Conference on Climbing and Walking Robots and the Support Technologies for Mobile Machines (CLAWAR'2008) is to provide a venue where researchers, scientists, engineers and practitioners throughout the world can come together to present and discuss the latest achievements, future challenges and exciting applications for mobile service machines in general, and climbing and walking robots in particular. In order to benefit all participants, and also to maximize the interaction, the technical program of this conference is intentionally tailored to having relatively few parallel tracks. Each track will accommodate peer-reviewed articles, comprising regular and special sessions, dealing with theoretical, experimental and application works. Moreover, the conference will include several keynote lectures and poster sessions.

Topics of Interest (non-exhaustive list):

RESEARCH

- Autonomous robots
- Tele-operated robots
- Biologically-inspired systems and solutions
- Innovative design of CLAWAR
- Modelling and simulation of CLAWAR
- Planning and control
- Co-operative robot systems
- Intelligence and learning for CLAWAR
- HMI
- Innovative actuators and power supplies
- Innovative sensors and sensor networks
- Positioning & localization
- Perception and sensor fusion
- Guidance and navigation
- Manipulation and gripping
- Legged locomotion
- Wheeled locomotion
- Hybrid locomotion
- Micro and nano robots
- Tele-presence and virtual reality
- Service robot standards and standardization
- SME robotics

APPLICATION

- Planetary exploration
- Security
- Emergence rescue operations
- Surveillance
- Reconnaissance
- Education
- Biomedical robots
- Rehabilitation and function restoration
- Petrochemical applications
- Inspection
- Construction
- Entertainment
- Helping the elderly and the disabled
- Manufacturing
- Performing and creative arts robots
- Personal robots
- Robots for domestic environments
- Service robots
- Space robots
- Assistive robots
- Sport and exercise robots

Important Dates:

Proposals for Special Sessions: 15 March 2008

Submission of Extended Abstracts: 15 April 2008

Paper Acceptance: 15 May 2008

Submission of Final Papers: 15 June 2008

Early Bird Registration: 15 June 2008

Preliminary Program: 01 July 2008

Conference: 08 – 10 September 2008

For further details visit:

www.isr.uc.pt/clawar2008

